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P548PC00 sequence listing.ST25
SEQUENCE LISTING

<110> Chemogenetics c/o Hvidovre hospital
Fenger, Mogens

<120> Method of rapid detection of mutations and nucleotide polymorphism using
chemometrics.

<130> P548PC00

<160> 65

<170> PatentIn version 3.1

<210> 1

<211> 14

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein B 3500 mutation (wt)

<400> 1
agcacacggt cttc

14

<210> 2

<211> 14

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein B 3500 mutation (mut)

<400> 2

Side

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14

agcacacagt cttc

<210> 3

<211> 17

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein B 2488 polymorphism (allele 1)

<400> 3

cgagagaccc tagaaga

17

<210> 4

<211> 17

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein B 2488 polymorphism (allele 2)

<400> 4

cgagagactc tagaaga

17

<210> 5

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein E polymorphism 112-cys

<400> 5

gacgtgtgcg gccgc

15

side

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<210> 6

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein E polymorphism 112-arg

<400> 6
gacgtgcgcg gccgc

15

<210> 7

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein E polymorphism 158-cys

<400> 7
cagaagtgcc tggca

15

<210> 8

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Apolipoprotein E polymorphism 158-arg

<400> 8
cagaagcgcc tggca

15

<210> 9

side

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<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Human muscle glycogen synthase polymorphism

<400> 9
actccattct agagt

15

<210> 10

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Human muscle glycogen synthase polymorphism

<400> 10
actccatcct agagt

15

<210> 11

<211> 16

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Dnase 1 mutations (wt)

<400> 11
ggggcatgaa gctgct

16

<210> 12

<211> 16

side

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<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Dnase 1 mutations (mutation)

<400> 12
ggggcatgta gctgct

16

<210> 13

<211> 14

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Methylene tetrahydrofolate reductase polymorphism (wt)

<400> 13
tgcgcatcga ttct

14

<210> 14

<211> 14

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Methylene tetrahydrofolate reductase polymorphism (mutation)

<400> 14
tgcggaccga ttct

14

<210> 15

<211> 10

<212> DNA

side

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Mismatch repair gene mutations (wt)

<400> 15
gaagaaggct

10

<210> 16

<211> 10

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Mismatch repair gene mutations (mutation)

<400> 16
gaaggcggct

10

<210> 17

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> probe for Enterobacteriaceas 16S

<220>

<221> misc_feature

<223> General capture probe for 16S RNA

<400> 17
aggagtgat ccaaccgca

19

<210> 18

<211> 24

Side

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<212> DNA

<213> Artificial Sequence

<220>

<223> probe for E. coli - ECA75F 16S

<220>

<221> misc_feature

<223> specific capture-probe for Enterobacteriaceas 16S

<400> 18
ggcgcttacc actttgtgat tcat

24

<210> 19

<211> 25

<212> DNA

<213> Escherichia coli

<220>

<221> misc_feature

<223> specific capture-probe for E. Coli-ECA75F 16S

<400> 19
ggaagaagct tgcttctttg ctgac

25

<210> 20

<211> 70

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> oligonucleotide selected from a region of the apolipoprotein B gene at the codon3611 polymorphism (W1)

<400> 20
ctaagaacca gaagatcaga tggaaaaatg aagtcggat tcattctggg tctttccaga
gccaggtcga

60

70

Side

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<210> 21

<211> 50

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> oligonucleotide selected from a region of the apolipoprotein B gene at the codon 3611 polymorphism (W2)

<400> 21

accagaagat cagatggaaa aatgaagtcc ggattcattc tgggtctttc

50

<210> 22

<211> 50

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> oligonucleotide selected from a region of the apolipoprotein B gene at the codon 3611 polymorphism (M)

<400> 22

accagaagat cagatggaaa aatgaagtcc agattcattc tgggtctttc

50

<210> 23

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> A Cy5-wt-ter (Cy5-labelled at 5')

<400> 23

cggacttcattc ttttc

15

Side

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<210> 24

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> B cy5-mu-ter (Cy5 labelled at 5')

<400> 24
tggacttcat ttttc

15

<210> 25

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> C cy5-wt-cen (Cy5 labelled at 5')

<400> 25
atgaatccgg acttc

15

<210> 26

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> D cy5-mu-cen (Cy5 labelled at 5')

<400> 26
atgaatctgg acttc

15

Side

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<210> 27

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> BRCA1 gene codon 1313 wt

<400> 27
aacacccagg atcct

15

<210> 28

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> BRCA1 gene codon 1313 mut

<400> 28
aacacctagg atcct

15

<210> 29

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> BRCA1 gene codon 1541 wt

<400> 29
ctggaacagt ctggg

15

<210> 30

Side

P548PC00 sequence listing.ST25

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> BRCA1 gene codon 1541 mut

<400> 30
ctggaatagt ctggg

15

<210> 31

<211> 63

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> wild type 3 (W3)

<400> 31
gctaactacta agaaccagaa gatcagatgg aaaaatgaag tccggattca ttctgggtct
ttc

60

63

<210> 32

<211> 50

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Reverse oligonucleotide (R)

<400> 32
tggtcttcta gtctaccttt ttacttcagg cccaagtaag acccagaaag

50

<210> 33

Side

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> non-specific target molecule

<220>

<221> misc_feature

<223> non-specific target molecule (Z)

<400> 33

gttcacgagc tcagcaacct gtgacctgaa ttcagtctga taaaatcgca

50

<210> 34

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> E Cy3-wt-ter2 (Cy3 labelled at 5')

<400> 34

ggttcttagt gttag

15

<210> 35

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> F Cy3-mu-ter2 (Cy3 labelled at 5')

<400> 35

tggtcttagt gttag

15

Side

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<210> 36

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> G Cy3-wt-ter (Cy3 labelled at 5')

<400> 36
cggacttcac ttttc

15

<210> 37

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> H Cy3-mu-ter (Cy3 labelled at 5')

<400> 37
tggacttcac ttttc

15

<210> 38

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> I Rho-wt-ter (Rho labelled at 5')

<400> 38
cggacttcac ttttc

15

<210> 39

side

P548PC00 sequence listing.ST25

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> J Rho-mu-ter (Rho labelled at 5')

<400> 39
tggacttcac ttttc

15

<210> 40

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> K Rho-wt-cen (Rho labelled at 5')

<400> 40
atgaatccgg acttc

15

<210> 41

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> L Rho-mu-cen (Rho labelled at 5')

<400> 41
atgaatctgg acttc

15

<210> 42

<211> 13

Side

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon112-cys

<400> 42
atggaggacg tgt

13

<210> 43

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon112-arg

<400> 43
atggaggacg tgc

13

<210> 44

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon 158-cys

<400> 44
gacctgcaga agt

13

<210> 45

<211> 13

<212> DNA

Side

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon 158-arg

<400> 45
gacctgcaga agc

13

<210> 46

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon112-cys/arg

<400> 46
catggaggac gtg

13

<210> 47

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon 158-cys/arg

<400> 47
tgacctgcag aag

13

<210> 48

<211> 13

<212> DNA

<213> Homo sapiens

Side

<220>

<221> misc_feature

<223> apoE codon112-cys

<400> 48
ccaggcggcc gca

13

<210> 49

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon112-arg

<400> 49
ccaggcggcc gcg

13

<210> 50

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon158-cys

<400> 50
acactgccag gca

13

<210> 51

<211> 13

<212> DNA

<213> Homo sapiens

Side

P548PC00 sequence listing.ST25

<220>

<221> misc_feature

<223> apoE codon158-arg

<400> 51
acactgccag gcg

13

<210> 52

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon112-cys/arg

<400> 52
accaggcggc cgc

13

<210> 53

<211> 13

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon158-cys/arg

<400> 53
tacactgccg ggc

13

<210> 54

<211> 15

<212> DNA

<213> Homo sapiens

<220>

side

P548PC00 sequence listing.ST25

<221> misc_feature

<223> apoE codon112-cys

<400> 54
gcggccgcac acgtc

15

<210> 55

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon112-arg

<400> 55
gcggccgcgc acgtc

15

<210> 56

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> apoE codon 158-cys

<400> 56
tgccaggcac ttctg

15

<210> 57

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

Side

<223> apoE codon 158-arg

<400> 57
tgccaggcgc ttctg

15

<210> 58

<211> 15

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Cy5-wt-ter (consists partially of LNA)

<400> 58
cggacttcac ttttc

15

<210> 59

<211> 20

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> 3611s

<400> 59
agaacataca agcaaagcca

20

<210> 60

<211> 21

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> 3611as

side

<400> 60
gaggaacctt aggtgtcctt c

21

<210> 61

<211> 64

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> WA Poly2 antisense wildtype

<400> 61
atggggccag acccgagatt ctgggatccc agccccctcc ccgcctcaga tccagaagtc 60
cagc 64

<210> 62

<211> 64

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> WS Poly2 sense wildtype

<400> 62
gctggacttc tggatctgag gcggggaggg ggctgggatc ccagaatctc gggctctggcc 60
ccat 64

<210> 63

<211> 64

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

side

<223> MA Poly2 antisense mutant

<400> 63
atggggccag acccgagatt ctgggatccc agcccgtcc ccgcctcaga tccagaagtc 60
cagc 64

<210> 64

<211> 64

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> MS Poly2 sense mutant

<400> 64
gctggacttc tggatctgag gcggggacgg ggctgggata ccagaatctc gggctctggcc 60
ccat 64

<210> 65

<211> 12

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> WP Poly2 wild type probe (Cy5 labelled at 5')

<400> 65
gggggctggg at

12